



SEQUENCE LISTING

<110> Nolan, Garry P

<120> METHODS FOR SCREENING FOR TRANSDOMINANT INTRACELLULAR  
EFFECTOR PEPTIDES AND RNA MOLECULES

<130> A-64260-5/RMS/AMS

<140> US 09/918,601  
<141> 2001-07-30

<150> US 09/727,715  
<151> 2000-11-28

<150> US 08/963,368  
<151> 1997-11-03

<150> US 08/589,109  
<151> 1996-01-23

<150> US 08/589,911  
<151> 1996-01-23

<150> US 08/789,333  
<151> 1997-01-23

<150> US 08/787,738  
<151> 1997-01-23

<160> 102

<170> PatentIn Ver. 2.0

<210> 1  
<211> 48  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: random  
sequence.

<220>  
<221> misc\_feature  
<222> (7)..(35)  
<223> The n(s) at positions  
7,8,10,11,13,14,16,17,19,20,22,23,25,26,28,29,31,3  
2,34,35 can be any nucleic acid.

<400> 1  
atgggannkn nknknknkn knknknknkn nnknknkgggg ggcccccc

<210> 2  
<211> 16  
<212> PRT  
<213> Artificial Sequence

48

<220>

<223> Description of Artificial Sequence: random sequence.

<220>

<221> VARIANT

<222> (3)..(12)

<223> The Xaa(s) at positions 3-12 can be any amino acid.

<400> 2

Met Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Gly Pro Pro  
1 5 10 15

<210> 3

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: molecular flexibility/stability sequence.

<400> 3

Gly Gly Pro Pro  
1

<210> 4

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: coiled-coil structure.

<400> 4

Met Gly Cys Ala Ala Leu Glu Ser Glu Val Ser Ala Leu Glu Ser Glu  
1 5 10 15

Val Ala Ser Leu Glu Ser Glu Val Ala Ala Leu Gly Arg Gly Asp Met  
20 25 30

Pro Leu Ala Ala Val Lys Ser Lys Leu Ser Ala Val Lys Ser Lys Leu  
35 40 45

Ala Ser Val Lys Ser Lys Leu Ala Ala Cys Gly Pro Pro  
50 55 60

<210> 5

<211> 6

<212> PRT

<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: loop  
structure.

<400> 5  
Gly Arg Gly Asp Met Pro  
1 5

<210> 6  
<211> 69  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: minibody  
presentation structure.

<400> 6  
Met Gly Arg Asn Ser Gln Ala Thr Ser Gly Phe Thr Phe Ser His Phe  
1 5 10 15  
Tyr Met Glu Trp Val Arg Gly Gly Glu Tyr Ile Ala Ala Ser Arg His  
20 25 30  
Lys His Asn Lys Tyr Thr Thr Glu Tyr Ser Ala Ser Val Lys Gly Arg  
35 40 45  
Tyr Ile Val Ser Arg Asp Thr Ser Gln Ser Ile Leu Tyr Leu Gln Lys  
50 55 60  
Lys Lys Gly Pro Pro  
65

<210> 7  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: nuclear  
localization sequence.

<400> 7  
Pro Lys Lys Lys Arg Lys Val  
1 5

<210> 8  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: nuclear

localization sequence.

<400> 8

Ala Arg Arg Arg Arg Pro  
1 5

<210> 9

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: nuclear  
localization sequence.

<400> 9

Glu Glu Val Gln Arg Lys Arg Gln Lys Leu  
1 5 10

<210> 10

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: nuclear  
localization sequence.

<400> 10

Glu Glu Lys Arg Lys Arg Thr Tyr Glu  
1 5

<210> 11

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: nuclear  
localization sequence.

<400> 11

Ala Val Lys Arg Pro Ala Ala Thr Lys Lys Ala Gly Gln Ala Lys Lys  
1 5 10 15

Lys Lys Leu Asp  
20

<210> 12

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: signal  
sequence.

<400> 12

Met Ala Ser Pro Leu Thr Arg Phe Leu Ser Leu Asn Leu Leu Leu Leu  
1 5 10 15

Gly Glu Ser Ile Leu Gly Ser Gly Glu Ala Lys Pro Gln Ala Pro  
20 25 30

<210> 13

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: signal  
sequence.

<400> 13

Met Ser Ser Phe Gly Tyr Arg Thr Leu Thr Val Ala Leu Phe Thr Leu  
1 5 10 15

Ile Cys Cys Pro Gly  
20

<210> 14

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: transmembrane  
domain sequence.

<400> 14

Pro Gln Arg Pro Glu Asp Cys Arg Pro Arg Gly Ser Val Lys Gly Thr  
1 5 10 15

Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly  
20 25 30

Ile Cys Val Ala Leu Leu Leu Ser Leu Ile Ile Thr Leu Ile Cys Tyr  
35 40 45

His Ser Arg  
50

<210> 15

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: transmembrane  
sequence.

<400> 15

Met Val Ile Ile Val Thr Val Val Ser Val Leu Leu Ser Leu Phe Val  
1 5 10 15

Thr Ser Val Leu Leu Cys Phe Ile Phe Gly Gln His Leu Arg Gln Gln  
20 25 30

Arg

<210> 16

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: membrane  
anchor sequence.

<400> 16

Pro Asn Lys Gly Ser Gly Thr Thr Ser Gly Thr Thr Arg Leu Leu Ser  
1 5 10 15

Gly His Thr Cys Phe Thr Leu Thr Gly Leu Leu Gly Thr Leu Val Thr  
20 25 30

Met Gly Leu Leu Thr  
35

<210> 17

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: myristylation  
sequence.

<400> 17

Met Gly Ser Ser Lys Ser Lys Pro Lys Asp Pro Ser Gln Arg  
1 5 10

<210> 18

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: palmitoylation  
sequence.

<400> 18  
 Leu Leu Gln Arg Leu Phe Ser Arg Gln Asp Cys Cys Gly Asn Cys Ser  
 1 5 10 15

Asp Ser Glu Glu Glu Leu Pro Thr Arg Leu  
 20 25

<210> 19  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: palmitoylation  
 sequence.

<400> 19  
 Lys Gln Phe Arg Asn Cys Met Leu Thr Ser Leu Cys Cys Gly Lys Asn  
 1 5 10 15

Pro Leu Gly Asp  
 20

<210> 20  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: palmitoylation  
 sequence.

<400> 20  
 Leu Asn Pro Pro Asp Glu Ser Gly Pro Gly Cys Met Ser Cys Lys Cys  
 1 5 10 15

Val Leu Ser

<210> 21  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: lysosomal  
 degradation sequence.

<400> 21  
 Lys Phe Glu Arg Gln  
 1 5

<210> 22  
<211> 36  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: lysosomal  
membrane sequence.

<400> 22  
Met Leu Ile Pro Ile Ala Gly Phe Phe Ala Leu Ala Gly Leu Val Leu  
1 5 10 15  
Ile Val Leu Ile Ala Tyr Leu Ile Gly Arg Lys Arg Ser His Ala Gly  
20 25 30  
Tyr Gln Thr Ile  
35

<210> 23  
<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: lysosomal  
degradation sequence.

<400> 23  
Leu Val Pro Ile Ala Val Gly Ala Ala Leu Ala Gly Val Leu Ile Leu  
1 5 10 15  
Val Leu Leu Ala Tyr Phe Ile Gly Leu Lys His His His Ala Gly Tyr  
20 25 30  
Glu Gln Phe  
35

<210> 24  
<211> 27  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: mitochondrial  
matrix sequence.

<400> 24  
Met Leu Arg Thr Ser Ser Leu Phe Thr Arg Arg Val Gln Pro Ser Leu  
1 5 10 15  
Phe Ser Arg Asn Ile Leu Arg Leu Gln Ser Thr  
20 25



<210> 25  
<211> 25  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: mitochondrial  
inner membrane sequence.

<400> 25  
Met Leu Ser Leu Arg Gln Ser Ile Arg Phe Phe Lys Pro Ala Thr Arg  
1 5 10 15  
Thr Leu Cys Ser Ser Arg Tyr Leu Leu  
20 25

<210> 26  
<211> 64  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: mitochondrial  
intermembrane sequence.

<400> 26  
Met Phe Ser Met Leu Ser Lys Arg Trp Ala Gln Arg Thr Leu Ser Lys  
1 5 10 15  
Ser Phe Tyr Ser Thr Ala Thr Gly Ala Ala Ser Lys Ser Gly Lys Leu  
20 25 30  
Thr Gln Lys Leu Val Thr Ala Gly Val Ala Ala Ala Gly Ile Thr Ala  
35 40 45  
Ser Thr Leu Leu Tyr Ala Asp Ser Leu Thr Ala Glu Ala Met Thr Ala  
50 55 60

<210> 27  
<211> 41  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: mitochondrial  
outer membrane sequence.

<400> 27  
Met Lys Ser Phe Ile Thr Arg Asn Lys Thr Ala Ile Leu Ala Thr Val  
1 5 10 15  
Ala Ala Thr Gly Thr Ala Ile Gly Ala Tyr Tyr Tyr Tyr Asn Gln Leu

	20	25	30
Gln Gln Gln Gln Gln Arg Gly Lys Lys			
35	40		

<210> 28  
 <211> 4  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: endoplasmic  
 reticulum sequence.

<400> 28  
 Lys Asp Glu Leu  
 1

<210> 29  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: endoplasmic  
 reticulum sequence.

<400> 29  
 Leu Tyr Leu Ser Arg Arg Ser Phe Ile Asp Glu Lys Lys Met Pro  
 1 5 10 15

<210> 30  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:farnesylation  
 sequence.

<400> 30  
 Leu Asn Pro Pro Asp Glu Ser Gly Pro Gly Cys Met Ser Cys Lys Cys  
 1 5 10 15

Val Leu Ser

<210> 31  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:  
geranylgeranylation sequence.

<400> 31

Leu Thr Glu Pro Thr Gln Pro Thr Arg Asn Gln Cys Cys Ser Asn  
1 5 10 15

<210> 32

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:destruction  
sequence.

<400> 32

Arg Thr Ala Leu Gly Asp Ile Gly Asn  
1 5

<210> 33

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:secretory  
sequence.

<400> 33

Met Tyr Arg Met Gln Leu Leu Ser Cys Ile Ala Leu Ser Leu Ala Leu  
1 5 10 15

Val Thr Asn Ser  
20

<210> 34

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: secretory  
sequence.

<400> 34

Met Ala Thr Gly Ser Arg Thr Ser Leu Leu Leu Ala Phe Gly Leu Leu  
1 5 10 15

Cys Leu Pro Trp Leu Gln Glu Gly Ser Ala Phe Pro Thr  
20 25

<210> 35

<211> 27  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: secretory  
sequence.

<400> 35  
Met Ala Leu Trp Met Arg Leu Leu Pro Leu Leu Ala Leu Leu Ala Leu  
1 5 10 15  
Trp Gly Pro Asp Pro Ala Ala Ala Phe Val Asn  
20 25

<210> 36  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: secretory  
sequence.

<400> 36  
Met Lys Ala Lys Leu Leu Val Leu Leu Tyr Ala Phe Val Ala Gly Asp  
1 5 10 15  
Gln Ile

<210> 37  
<211> 24  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: secretory  
sequence.

<400> 37  
Met Gly Leu Thr Ser Gln Leu Leu Pro Pro Leu Phe Phe Leu Leu Ala  
1 5 10 15  
Cys Ala Gly Asn Phe Val His Gly  
20

<210> 38  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: stability

sequence.

<220>

<221> VARIANT

<222> (3)..(6)

<223> The Xaa(s) at positions 3-6 can be any amino acid.

<400> 38

Met Gly Xaa Xaa Xaa Xaa Gly Gly Pro Pro  
1 5 10

<210> 39

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: linker  
sequence.

<400> 39

Gly Ser Gly Gly Ser  
1 5

<210> 40

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: linker  
sequence.

<400> 40

Gly Gly Gly Ser  
1

<210> 41

<211> 124

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic

<220>

<221> VARIANT

<222> (115)..(120)

<223> The Xaa(s) at postions 115-120 can be any amino  
acid.

<400> 41

Met Arg Pro Leu Ala Gly Gly Glu His Thr Met Ala Ser Pro Leu Thr  
1 5 10 15

Arg Phe Leu Ser Leu Asn Leu Leu Leu Leu Gly Glu Ser Ile Ile Leu  
                   20                                  25                                  30  
 Gly Ser Gly Pro Gln Arg Pro Glu Asp Cys Arg Pro Arg Gly Ser Val  
                   35                                  40                                  45  
 Lys Gly Thr Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro  
                   50                                  55                                  60  
 Leu Ala Gly Ile Cys Val Ala Leu Leu Leu Ser Leu Ile Ile Thr Leu  
                   65                                  70                                  75                                  80  
 Ile Cys Tyr His Ser Arg Gly Ser Gly Gly Ser Gly Ser Gly Gly Ser  
                                   85                                  90                                  95  
 Gly Ser Gly Gly Ser Gly Ser Gly Gly Ser Gly Ser Gly Gly Ser Gly  
                                   100                                  105                                  110  
 Gly Gly Xaa Xaa Xaa Xaa Xaa Xaa Gly Gly Pro Pro  
                   115                                  120

<210> 42

<211> 173

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic.

<220>

<221> VARIANT

<222> (140)..(145)

<223> The Xaa(s) at positions 140-145 can be any amino acid.

<400> 42

Met Arg Pro Leu Ala Gly Gly Glu His Thr Met Ala Ser Pro Leu Thr  
           1                                  5                                  10                                  15  
 Arg Phe Leu Ser Leu Asn Leu Leu Leu Leu Gly Glu Ser Ile Ile Leu  
                   20                                  25                                  30  
 Gly Ser Gly Pro Gln Arg Pro Glu Asp Cys Arg Pro Arg Gly Ser Val  
                   35                                  40                                  45  
 Lys Gly Thr Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro  
                   50                                  55                                  60  
 Leu Ala Gly Ile Cys Val Ala Leu Leu Leu Ser Leu Ile Ile Thr Leu  
                   65                                  70                                  75                                  80  
 Ile Cys Tyr His Ser Arg Gly Ser Gly Gly Ser Gly Ser Gly Gly Ser  
                                   85                                  90                                  95  
 Gly Ser Gly Gly Ser Gly Ser Gly Gly Ser Gly Ser Gly Gly Ser Gly

100	105	110
Gly Gly Cys Ala Ala Leu Glu Ser Glu Val Ser Ala Leu Glu Ser Glu		
115	120	125
Val Ala Ser Leu Glu Ser Glu Val Ala Ala Leu Xaa Xaa Xaa Xaa Xaa		
130	135	140
Xaa Leu Ala Ala Val Lys Ser Lys Leu Ser Ala Val Lys Ser Lys Leu		
145	150	155
		160
Ala Ser Val Lys Ser Lys Leu Ala Ala Cys Gly Pro Pro		
165	170	

<210> 43  
 <211> 127  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: synthetic.

<220>  
 <221> VARIANT  
 <222> (38)..(43)  
 <223> The Xaa(s) at positions 38-43 can be any amino acid.

<400> 43
Met Arg Pro Leu Ala Gly Gly Glu His Thr Met Ala Ser Pro Leu Thr
1 5 10 15
Arg Phe Leu Ser Leu Asn Leu Leu Leu Leu Gly Glu Ser Ile Ile Leu
20 25 30
Gly Ser Gly Gly Gly Xaa Xaa Xaa Xaa Xaa Xaa Gly Gly Ser Gly Gly
35 40 45
Ser Gly Ser Gly Gly Ser Gly Ser Gly Gly Ser Gly Ser Gly Gly Ser
50 55 60
Gly Ser Gly Gly Ser Gly Gly Gly Pro Gln Arg Pro Glu Asp Cys Arg
65 70 75 80
Pro Arg Gly Ser Val Lys Gly Thr Gly Leu Asp Phe Ala Cys Asp Ile
85 90 95
Tyr Ile Trp Ala Pro Leu Ala Gly Ile Cys Val Ala Leu Leu Leu Ser
100 105 110
Leu Ile Ile Thr Leu Ile Cys Tyr His Ser Arg Gly Gly Pro Pro
115 120 125

<210> 44  
 <211> 177

<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic

<220>

<221> VARIANT

<222> (63)..(68)

<223> The Xaa(s) at positions 63-68 can be any amino acid.

<400> 44

Met	Arg	Pro	Leu	Ala	Gly	Gly	Glu	His	Thr	Met	Ala	Ser	Pro	Leu	Thr
1				5					10					15	
Arg	Phe	Leu	Ser	Leu	Asn	Leu	Leu	Leu	Leu	Gly	Glu	Ser	Ile	Ile	Leu
			20				25						30		
Gly	Ser	Gly	Gly	Gly	Cys	Ala	Ala	Leu	Glu	Ser	Glu	Val	Ser	Ala	Leu
		35					40					45			
Glu	Ser	Glu	Val	Ala	Ser	Leu	Glu	Ser	Glu	Val	Ala	Ala	Leu	Xaa	Xaa
	50					55					60				
Xaa	Xaa	Xaa	Xaa	Leu	Ala	Ala	Val	Lys	Ser	Lys	Leu	Ser	Ala	Val	Lys
65					70				75						80
Ser	Lys	Leu	Ala	Ser	Val	Lys	Ser	Lys	Leu	Ala	Ala	Cys	Gly	Gly	Ser
				85					90					95	
Gly	Gly	Ser	Gly	Ser	Gly	Gly	Ser	Gly	Ser	Gly	Gly	Ser	Gly	Ser	Gly
			100					105					110		
Gly	Ser	Gly	Ser	Gly	Gly	Ser	Gly	Gly	Gly	Pro	Gln	Arg	Pro	Glu	Asp
			115				120					125			
Cys	Arg	Pro	Arg	Gly	Ser	Val	Lys	Gly	Thr	Gly	Leu	Asp	Phe	Ala	Cys
	130					135					140				
Asp	Ile	Tyr	Ile	Trp	Ala	Pro	Leu	Ala	Gly	Ile	Cys	Val	Ala	Leu	Leu
145					150					155					160
Leu	Ser	Leu	Ile	Ile	Thr	Leu	Ile	Cys	Tyr	His	Ser	Arg	Gly	Gly	Pro
				165					170					175	

Pro

<210> 45

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic



<220>  
 <221> VARIANT  
 <222> (38)..(43)  
 <223> The Xaa(s) at positions 38-43 can be any amino acid.

<400> 45  
 Met Arg Pro Leu Ala Gly Gly Glu His Arg Met Ala Ser Pro Leu Thr  
           1                  5                  10                  15  
 Arg Phe Leu Ser Leu Asn Leu Leu Leu Leu Gly Glu Ser Ile Ile Leu  
                   20                  25                  30  
 Gly Ser Gly Gly Gly Xaa Xaa Xaa Xaa Xaa Xaa Gly Gly Pro Pro  
           35                  40                  45

<210> 46  
 <211> 95  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: synthetic

<220>  
 <221> VARIANT  
 <222> (62)..(67)  
 <223> The Xaa(s) at positions 62-67 can be any amino acid.

<400> 46  
 Met Arg Pro Leu Ala Gly Gly Glu His Thr Met Ala Ser Pro Leu Thr  
           1                  5                  10                  15  
 Arg Phe Leu Ser Leu Asn Leu Leu Leu Leu Gly Glu Ser Ile Ile Leu  
                   20                  25                  30  
 Gly Ser Gly Gly Gly Ala Ala Leu Glu Ser Glu Val Ser Ala Leu Glu  
           35                  40                  45  
 Ser Glu Val Ala Ser Leu Glu Ser Glu Val Ala Ala Leu Xaa Xaa Xaa  
           50                  55                  60  
 Xaa Xaa Xaa Leu Ala Ala Val Lys Ser Lys Leu Ser Ala Val Lys Ser  
           65                  70                  75                  80  
 Lys Leu Ala Ser Val Lys Ser Lys Leu Ala Ala Cys Gly Pro Pro  
                   85                  90                  95

<210> 47  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic

<220>  
<221> VARIANT  
<222> (1)..(9)  
<223> The Xaa(s) at positions 1-3, 6, 8, 9 can be any amino acid.

<400> 47  
Xaa Xaa Xaa Pro Pro Xaa Pro Xaa Xaa  
1 5

<210> 48  
<211> 63  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic

<220>  
<221> misc\_feature  
<222> (7)..(20)  
<223> The n(s) at positions 7,8,10,11,13,14,16,17,19,20 can be any nucleic acid.

<400> 48  
atgggcnnkn nknnknnkn kagacctctg cctccasbkg ggsbksbkgg aggcccacct 60  
taa 63

<210> 49  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic

<220>  
<221> VARIANT  
<222> (3)..(16)  
<223> The Xaa(s) at postions 3-7, 13,15,16 can be any amino acid.

<400> 49  
Met Gly Xaa Xaa Xaa Xaa Xaa Arg Pro Leu Pro Pro Xaa Pro Xaa Xaa  
1 5 10 15  
Gly Gly Pro Pro  
20

<210> 50  
<211> 12  
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: random sequence.

<220>

<221> VARIANT

<222> (2)..(11)

<223> The Xaa(s) at postions 2-11 can be any amino acid.

<400> 50

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys  
1 5 10

<210> 51

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: epitope tag sequence.

<400> 51

Met Gly Gly Gly Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Gly Ser Leu  
1 5 10 15

Glx

<210> 52

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PKCa translocation inhibitor sequence.

<400> 52

Gly Lys Gln Lys Thr Lys Thr Ile Lys Gly Pro Pro  
1 5 10

<210> 53

<211> 92

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: random sequence.

<220>

<221> misc\_feature  
 <222> (28)..(56)  
 <223> The n(s) at postions  
 28,29,31,32,34,35,37,38,40,41,43,44,46,47,49,50,52  
 ,53,55,56 can be any nucleic acid.

<400> 53  
 gcttagcaag atctctacgg tggaccknnk nnknnknnkn nknnknnknn knnknncccc 60  
 actcccatgg tcttacgtac caccacactg gg 92

<210> 54  
 <211> 34  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: synthetic

<400> 54  
 gcttagcaag atctgtgtgt cagttagggt gtgg 34

<210> 55  
 <211> 47  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: random  
 sequence.

<220>  
 <221> misc\_feature  
 <222> (23)..(24)  
 <223> The n(s) at positions 23-24 can be any nucleic  
 acid.

<400> 55  
 ctggagaacc aggaccatgg gcnnkgggcc cccttaaacc attaaat 47

<210> 56  
 <211> 71  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: random  
 sequence.

<220>  
 <221> misc\_feature  
 <222> (23)..(48)  
 <223> The n(s) at positions  
 23,24,26,27,29,30,38,39,44,45,47,48 can be any  
 nucleic acid.

<400> 56  
 ctggagaacc aggaccatgg gcnnknnknn kcctcccnk cctnnknnkg ggccccetta 60

aaccattaaa t

71

<210> 57

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic

<400> 57

tcatgcatcc aatttaatgg tttaag

26

<210> 58

<211> 4950

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: retroviral  
vector with presentation construct sequence.

<400> 58

tgaaagaccc cacctgtagg tttggcaagc tagcttaagt aacgccattt tgcaaggcat 60  
ggaaaataca taactgagaa tagagaagtt cagatcaagg ttaggaacag agagacagca 120  
gaatatgggc caaacaggat atctgtggta agcagttcct gccccggctc agggccaaga 180  
acagatggtc cccagatgcg gtcccgcctt cagcagtttc tagagaacca tcagatgttt 240  
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cgcttctcgc ttctgttcgc gcgcttctgc tccccgagct caataaaaga gccacaacc 360  
cctcactcgg cgcgccagtc ctccgataga ctgcgtcgcc cgggtaccgc tattcccaat 420  
aaagcctctt gctgtttgca tccgaatcgt ggactcgctg atccttggga gggctctcctc 480  
agattgattg actgccacc tcgggggtct ttcatttggga gggtccaccg agatttggag 540  
accctgcct agggaccacc gaccccccg ccgggaggta agctggccag cggctcgtttc 600  
ctgtctgtct ctgtctttgt gcgtgtttgt gccggcatct aatgtttgcg cctgcgtctg 660  
tactagttag ctaactagct ctgtatctgg cggaccctgt gtggaactga cgagttctga 720  
acaccgggcc gcaaccctgg gagacgtccc agggactttg ggggccgttt ttgtggcccc 780  
acctgaggaa gggagtcgat gtggaatccg acccgcgcag gatatgtggg tctggtagga 840  
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agccgcgcgt cttgtctgct gcagcgtgc agcatcgctt tgtgttctct ctgtctgact 960  
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agacgttggg ttaccttctg ctctgcagaa tggccaacct ttaacgtcgg atggccgcga 1140  
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ccgcatggac acccagacca ggtcccctac atcgtgacct gggaagcctt ggcttttgac 1260  
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gccctcactc cttctctagg cgcgggaatt ccaggaccat gggcggggcc ccttaaacca 1440  
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attttattta gtctccagaa aaagggggga atgaaagacc ccacctgtag gtttggcaag 1560  
ctagcttaag taacgccatt ttgcaaggca tggaaaatac ataactgaga atagagaagt 1620  
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actgcgtcgc ccgggtaccc gtgtatccaa taaaccctct tgcagttgca tccgacttgt 1980  
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tttcattcgt	aatcatgggc	atagctgttt	cctgtgtgaa	attgttatcc	gctcacaatt	2100
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taactcacat	taattgcgtt	gcgctcactg	cccgcctttcc	agtcgggaaa	cctgtcgtgc	2220
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aggcgagtta	catgatcccc	catgttgtgc	aaaaaagcgg	ttagctcctt	cggtcctccg	3660
atcgttgtca	gaagtaagtt	ggccgcagtg	ttatcactca	tggttatggc	agcactgcac	3720
aattctctta	ctgcatgcc	atccgtaaga	tgcttttctg	tgactgggtga	gtactcaacc	3780
aagtcattct	gagaatagtg	tatgcggcga	ccgagttgct	cttgcccggc	gtcaatacgg	3840
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gggcgaaaaa	tctcaaggat	cttaccgctg	ttgagatcca	gttcgatgta	acccactcgt	3960
gcacccaact	gatcttcagc	atcttttact	ttcaccagcg	tttctgggtg	agcaaaaaca	4020
ggaaggcaaa	atgccgcaaa	aaagggaata	agggcgacac	ggaaatgttg	aatactcata	4080
ctcttccctt	ttcaatatta	ttgaagcatt	tatcagggtt	attgtctcat	gagcggatac	4140
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cagattgtac	tgagagtgc	ccatatgcgg	tgtgaaatac	cgcacagatg	cgtaaggaga	4500
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ctctccctta	tgcgactcct	gcattaggaa	gcagcccagt	agtaggttga	ggccgttgag	4740
caccgcgcgc	gcaagggaatg	gtgcatgcaa	ggagatggcg	cccaacagtc	ccccggccac	4800
ggggcctgcc	accataccca	cgccgaaaca	agcgtcatg	agcccgaagt	ggcgagcccg	4860
atcttcccca	tcgggtgatg	cggcgatata	ggcgccagca	accgcacctg	tggcgccggg	4920
gatgccggcc	acgatgcgtc	cggcgtagag				4950

<210> 59

<211> 74

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic

<400> 59  
 ctggagaacc aggaccatgg gcaagagaaa gggcgatgag gtggatggag tggggccccc 60  
 ttaaacatt aaat 74

<210> 60  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: anti-apoptosis  
 sequence.

<400> 60  
 Met Gly Lys Arg Lys Gly Asp Glu Val Asp Gly Val Gly Pro Pro  
 1 5 10 15

<210> 61  
 <211> 74  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: random  
 sequence.

<220>  
 <221> misc\_feature  
 <222> (35)..(48)  
 <223> The n(s) at positions 35,36,38,39,41,42,47,48 can  
 be any nucleic acid.

<400> 61  
 ctggagaacc aggaccatgg gcaagagaaa gggcnnknnk nnkgaknnkg tggggccccc 60  
 ttaaacatt aaat 74

<210> 62  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: random  
 sequence.

<220>  
 <221> VARIANT  
 <222> (7)..(11)  
 <223> The Xaa(s) at postions 7-9,11 can be any amino  
 acid.

<220>  
 <221> VARIANT  
 <222> (10)  
 <223> The amino acid at position 10 can be Aspartic acid

or Glutamic acid.

<400> 62

Met Gly Lys Arg Lys Gly Xaa Xaa Xaa Asp Xaa Val Gly Pro Pro  
1 5 10 15

<210> 63

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic

<400> 63

tcatgcatcc aatttaatgg tttaag 26

<210> 64

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic

<400> 64

gatcctccct ttatccag 18

<210> 65

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic

<400> 65

ctacaggtgg ggtctttc 18

<210> 66

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic

<400> 66

atgggcaaga gaaagggcac ggcgtctgat gctgtggggc ccccttaa 48

<210> 67

<211> 5

<212> PRT

<213> Artificial Sequence

<220>



<223> Description of Artificial Sequence: synthetic

<400> 67

Thr Ala Ser Asp Ala

1 5

<210> 68

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic

<400> 68

atgggcaaga gaaagggcta tccttctgat gtggtggggc ccccttaa

48

<210> 69

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic

<400> 69

Tyr Pro Ser Asp Val

1 5

<210> 70

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic

<400> 70

atgggcaaga gaaagggcac gccttcggat atggtggggc ccccttaa

48

<210> 71

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic

<400> 71

Thr Pro Ser Asp Met

1 5

<210> 72

<211> 48

<212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: synthetic  
  
 <400> 72  
 atgggcaaga gaaagggcac ggcttctgat cttgtggggc ccccttaa 48  
  
 <210> 73  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: synthetic  
  
 <400> 73  
 Thr Ala Ser Asp Leu  
 1 5  
  
 <210> 74  
 <211> 48  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: synthetic  
  
 <400> 74  
 atgggcaaga gaaagggctc tgatagggat attgtggggc ccccttaa 48  
  
 <210> 75  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: synthetic  
  
 <400> 75  
 Ser Asp Arg Asp Ile  
 1 5  
  
 <210> 76  
 <211> 48  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: synthetic  
  
 <400> 76  
 atgggcaaga gaaagggctg gttgctagag tttgtggggc ccccttaa 48

<210> 77  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic

<400> 77  
Trp Leu Leu Glu Phe  
1 5

<210> 78  
<211> 48  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic

<400> 78  
atgggcaaga gaaagggctg gttgatagag tttgtggggc ccccttaa 48

<210> 79  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic

<400> 79  
Trp Leu Ile Glu Phe  
1 5

<210> 80  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> SITE  
<222> (1)..(6)  
<223> The Xaa(s) at positions 1-6 can be any amino acid.

<220>  
<223> Description of Artificial Sequence: synthetic

<400> 80  
Xaa Xaa Xaa Xaa Xaa Xaa  
1 5

<210> 81  
<211> 5

<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic

<400> 81  
Ser Tyr Gln Asp Leu  
1 5

<210> 82  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic

<220>  
<221> VARIANT  
<222> (3)..(12)  
<223> The Xaa(s) at positions 3-12 can be any amino  
acid.

<400> 82  
Met Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Gly Pro Pro  
1 5 10 15

<210> 83  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic

<400> 83  
ctgacacaca ttccacag 18

<210> 84  
<211> 122  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic

<400> 84  
ggatccagtg tgggtgtacg taggaatacc atgggatgtc cgtctgttgc taggccgcgg 60  
ggtggtgggg gcccccccta gctaactaaa gatcccagtg tgggtgtacg taggaattcg 120  
cc 122

<210> 85  
<211> 16  
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic

<400> 85

Met Gly Cys Pro Ser Val Ala Arg Pro Arg Gly Gly Gly Gly Pro Pro  
1 5 10 15

<210> 86

<211> 112

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic

<400> 86

ggatcccagt gtggtggtac gtaggaatac catgggattg tcttttgta ttygtctgca 60  
gcatcgtggg ggccccccct agctaactaa agatcccagt gtggtggtac gt 112

<210> 87

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic

<400> 87

Met Gly Leu Ser Phe Val Ile Arg Leu Gln His Arg Gly Gly Pro Pro  
1 5 10 15

<210> 88

<211> 96

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic

<400> 88

ggatcccagt gtggtggtac gtaggagtac catgggacct ccgatttggt atactcattg 60  
gagtcatggg ggccccccct agctaactaa agatcc 96

<210> 89

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic

<400> 89

Met Gly Pro Pro Ile Trp Tyr Thr His Trp Ser His Gly Gly Pro Pro

1

5

10

15

&lt;210&gt; 90

&lt;211&gt; 95

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: synthetic

&lt;400&gt; 90

ggatcccagt gtggtggtac gtaggagtag catggaagtc aggcgtttgt gaatactcgg 60  
 cataaggggg gcccccccta gctaactaaa gatcc 95

&lt;210&gt; 91

&lt;211&gt; 6

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: synthetic

&lt;400&gt; 91

Met Glu Val Arg Arg Leu

1

5

&lt;210&gt; 92

&lt;211&gt; 126

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: synthetic

&lt;400&gt; 92

ccggccgtag tcaacaagg gctgaaggat gccagaagg taccattg tatgggatct 60  
 gatctggggc ctgggtgcac atgctttaca tgtgttttag cgaggttaa aaacgtctag 120  
 gcccc 126

&lt;210&gt; 93

&lt;211&gt; 107

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: synthetic

&lt;400&gt; 93

ggatcccagt gtggtggtac gtaggaatac catgggactt tagccgggcc cccctagct 60  
 aactaaagat ccagtggtg tggtacgtag gaattcgcca gcacagt 107

&lt;210&gt; 94

&lt;211&gt; 95

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: synthetic

<400> 94  
 ggatcccagt gtggtggtac gtaggaatac atgggaactg ttatggcgat gtcggattag 60  
 gtcgaggggg gcccccccta gctaactaaa gatcc 95

<210> 95  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: synthetic

<400> 95  
 Met Gly Thr Val Met Ala Met Ser Asp  
 1 5

<210> 96  
 <211> 95  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: synthetic

<400> 96  
 ggatccagtg tgggtggtacg taggaatacc atgggatgtc cgtctgttgc taggcgcgg 60  
 ggtggtgggg gcccccccta gctaactaaa gatcc 95

<210> 97  
 <211> 16  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: synthetic

<400> 97  
 Met Gly Cys Pro Ser Val Ala Arg Pro Arg Gly Gly Gly Gly Pro Pro  
 1 5 10 15

<210> 98  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> VARIANT  
 <222> (1)..(5)  
 <223> The Xaa(s) at postions 1-5 can be any amino acid.

<220>

<223> Description of Artificial Sequence: random  
sequence.

<400> 98  
Xaa Xaa Xaa Xaa Xaa  
1 5

<210> 99  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: histidine tag  
sequence.

<400> 99  
His His His His His His  
1 5

<210> 100  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> VARIANT  
<222> (1)..(4)  
<223> The Xaa(s) at postions 1-3 and 5 can be any amino  
acid.

<220>  
<221> VARIANT  
<222> (4)  
<223> The amino acid at postion 4 can be Aspartic acid  
or Glutamic acid.

<220>  
<223> Description of Artificial Sequence: synthetic.

<400> 100  
Xaa Xaa Xaa Asp Xaa  
1 5

<210> 101  
<211> 48  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic

<400> 101  
atgggcaaga gaaaaggctc ttaccaagat ctggtggggc ccccttaa

48



<210> 102  
<211> 2  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: linker  
sequence.

<400> 102  
Gly Ser  
1